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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:	Gavin MacBeath et al.
Serial No:	09/923,243
Confirmation No.:	9118
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For:	PROTEIN MICROARRAYS
Art Unit:	1619

CERTIFICATE OF MAILING UNDER 37 C.F.R. §1.8(a)

The undersigned hereby certifies that this document is being placed in the United States mail with first-class postage attached, addressed to Commissioner for Patents, Washington, D.C. 20231, on the 18th day of March 2002.

Signature

Commissioner for Patents
Washington, D. C. 20231

PRELIMINARY AMENDMENT

Sir:

Please amend the above-identified application as follows:

In the Specification

Please rewrite the specification below as shown. A marked-up version of the rewritten specification is attached hereto illustrating these changes.

Please rewrite paragraph 2 on page 30 (beginning at line 9) as follows:

Screening for competitors of ligand binding (Figure 8). SuperAldehyde slides were coated at room temperature with a solution of "5-helix" dissolved in phosphate buffered saline, pH 7.5 (PBS), at a concentration of 0.1 mg/ml. "5-helix" is a portion of the HIV protein gp41 and has been previously described by Root *et al.* in *Science* 291:884-888, 2001; which is incorporated herein by reference. After 1 hour, the slides were immersed in a solution of PBS/Tween-20 (0.1%) [PBST] + 1% BSA, at room temperature for one hour to quench all the unreacted sites on the slide. After 1 hour, the slides were rinsed with PBST and then incubated for 1 hour at room temperature with either 10 nM of C37-H6 (GGHTTWMEWDREINNYTSLIHSLIEESQNQQEKNEQELLGGHHHHHH) (SEQ ID NO:1), 1μm or 10 nM JN-DCC1 (GGHTTWMELDREINNYTSLIHSLIEESQNQQEKNEQELL) (SEQ

ID NO:2), or 10 nM JN-DCC2 (GGHTTWMEADREINNYTSLIHSLIEESQNQQEKNEQELL) (SEQ ID NO:3) (Chan *et al. Proc. Natl. Acad. Sci. USA* 95:15613-15617, 1998; incorporated herein by reference). All three of these peptides are ligands for 5-helix. Of the three peptides, C37-H6 binds with the highest affinity, JN-DCC1 with the second highest affinity, and JN-DCC2 with the lowest affinity. After the 1 hour incubation, the slides were washed with distilled water and centrifuged to remove excess buffer. To test the stability of these slides, they were left at room temperature in a humid chamber for 24 hours before further processing.

REMARKS

This is a preliminary amendment in which the Applicants have amended the specification to include Sequence ID numbers after sequences previously given in the specification and to correct an inadvertent typographical error. No new matter has been added.

If, for any reason, the Examiner is of the opinion that a telephone conversation with Applicants' representative would expedite prosecution, the Examiner is kindly invited to contact the undersigned at (617) 720-3500.

A favorable first Office Action is respectfully requested.

Respectfully submitted,

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Docket No: H00498/70162 TJO
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ndd

MARKED-UP SPECIFICATION

Screening for competitors of ligand binding (Figure 8). SuperAldehyde slides were coated at room temperature with a solution of "5-helix" dissolved in phosphate buffered saline, pH 7.5 (PBS), at a concentration of 0.1 mg/ml. "5-helix" is a portion of the HIV protein gp41 and has been previously described by Root *et al.* in *Science* 291:884-888, 2001; which is incorporated herein by reference. After 1 hour, the slides were immersed in a solution of PBS/Tween-20 (0.1%) [PBST] + 1% BSA, at room temperature for one hour to quench all the unreacted sites on the slide. After 1 hour, the slides were rinsed with PBST and then incubated for 1 hour at room temperature with either 10 nM of C37-H6 (GGHTTWMEWDREINNYTSLIHSLIEESQNQQEKNEQELLGGHHHHHH) (SEQ ID NO:1), 1μm or 10 nM JN-DCC1 (GGHTTWMELDREINNYTSLIHSLIEESQNQQEKNEQELL) (SEQ ID NO:2), or 10 nM JN-DCC2 (GGHTTWMEADREINNYTSLIHSLIEESQNQQEKNEQELL) (SEQ ID NO:3) (Chan *et al. Proc. Natl. Acad. Sci. USA* 95:15613-15617, 1998; incorporated herein by reference). All three of these peptides are ligands for 5-helix. Of the three peptides, C37-H6 binds with the highest affinity, JN-DCC1 with the second highest affinity, and JN-DCC2 with the lowest affinity. After the 1 hour incubation, the slides were washed with distilled water and centrifuged to remove excess buffer. To test the stability of these slides, they were left at room temperature in a humid chamber for 24 hours before further processing.